

**RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FAULT DETECTION

the specification of which (check applicable box(es)):

- ☐ is attached hereto
☐ was filed on

as U.S. Application Serial No.

(Atty Dkt. No.

☒ was filed as PCT International application No.PCT/GB2003/001359on 27 MARCH 2003

and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number
02252351.8

Country
EUROPE

Day/Month/Year Filed
28 MARCH 2002

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

Application Number

Date/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s):

Application Serial No.

Day/Month/Year Filed

Status: patented
 pending, abandoned

PCT/GB2003/00135927 MARCH 2003PENDING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1. ☒ Inventor's Signature:
 Inventor:

NICHOLAS
 (first)

MI

LUNT
 (last)

Date: 01 APRIL 2003

GB
 (citizenship)

Residence: (city) IPSWICH, GB (state/country) GREAT BRITAIN


Post Office Address: 17 DEMESNE GARDENS, MARTLESHAM HEATH, IPSWICH, SUFFOLK
 (Zip Code) IP5 3UA

FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Nixon & Vanderhye P.C. (12/95)

Page 2

2. 00	Inventor's Signature:		Date:	<u>1st April 2003</u>
	Inventor:	<u>PAUL</u> <u>BIRDSALL</u>		<u>GB</u>
		(first) MI (last) (citizenship)		
	Residence: (city)	<u>IPSWICH, GBN.</u>	(state/country)	<u>GREAT BRITAIN</u>
	Post Office Address:	<u>44 SUFFOLK ROAD, IPSWICH, SUFFOLK,</u>		
	(Zip Code)	<u>IP4 2EZ</u>		
3.	Inventor's Signature:		Date:	
	Inventor:	<u>MICHAEL</u> <u>W</u> <u>BECKFORD</u>		<u>GB</u>
		(first) MI (last) (citizenship)		
	Residence: (city)	<u>DERBY</u>	(state/country)	<u>GREAT BRITAIN</u>
	Post Office Address:	<u>12 LAWNSWOOD CLOSE, LITTLEOVER, DERBY, DERBYSHIRE</u>		
	(Zip Code)	<u>DE23 6JE</u>		
4.	Inventor's Signature:		Date:	
	Inventor:	<u>ANDREW</u> <u>D</u> <u>CHATTEL</u>		<u>GB</u>
		(first) MI (last) (citizenship)		
	Residence: (city)	<u>IPSWICH</u>	(state/country)	<u>GREAT BRITAIN</u>
	Post Office Address:	<u>314 COLCHESTER ROAD, IPSWICH, SUFFOLK</u>		
	(Zip Code)	<u>IP4 4NQ</u>		
5.	Inventor's Signature:		Date:	
	Inventor:			
		(first) MI (last) (citizenship)		
	Residence: (city)		(state/country)	
	Post Office Address:			
	(Zip Code)			
6.				
7.				

DECLARAT

over to 2nd elec.

**RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FAULT DETECTION

the specification of which (check applicable box(es)):

- ☐ is attached hereto
☐ was filed on

as U.S. Application Serial No.

(Atty Dkt. No.

☒ was filed as PCT International application No. PCT/GB2003/ 001359 on 27 MARCH 2003
and (if applicable to U.S. or PCT application) was amended on _____

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number	Country	Day/Month/Year Filed
02252351.8	EUROPE	28 MARCH 2003

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

Application Number	Date/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s):

Application Serial No.	Day/Month/Year Filed
PCT/GB2003/001359	27 MARCH 2003

Status: patented
pending, abandoned

PCT/GB2003/001359

27 MARCH 2003

PENDING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1. Inventor's Signature:				Date:	
Inventor:	NICHOLAS	MI	LUNT	GB	
	(first)		(last)	(citizenship)	
Residence (city)	IPSWICH	(state/country)		GREAT BRITAIN	
Post Office Address:	17 DEMISNE GARDENS, MARTLESHAM HEATH, IPSWICH, SUFFOLK				
(Zip Code)	IP5 3UA				

FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

Nixon & Vanderhye P.C. (12/95)

Page 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2.	Inventor's Signature:				Date:	
	Inventor:	PAUL	MI	BIRDSALL	GB	
		(first)		(last)	(citizenship)	
	Residence: (city)	IPSWICH		(state/country)	GREAT BRITAIN	
	Post Office Address:	44 SUFFOLK ROAD, IPSWICH, SUFFOLK				
	(Zip Code)	IP4 2EZ				
3.	Inventor's Signature:	<i>M Beckford</i>			Date:	11/04/03
	Inventor:	MICHAEL	W	BECKFORD	GB	
		(first)	MI	(last)	(citizenship)	
	Residence: (city)	DERBY		(state/country)	GREAT BRITAIN	
	Post Office Address:	12 LAWNSWOOD CLOSE, LITTLEOVER, DERBY, DERBYSHIRE				
	(Zip Code)	DE23 6JE				
4.	Inventor's Signature:				Date:	
	Inventor:	ANDREW	D	CHATEL	GB	
		(first)	MI	(last)	(citizenship)	
	Residence: (city)	IPSWICH		(state/country)	GREAT BRITAIN	
	Post Office Address:	314 COLCHESTER ROAD, IPSWICH, SUFFOLK				
	(Zip Code)	IP4 4NQ				
5.	Inventor's Signature:				Date:	
	Inventor:		MI			
		(first)		(last)	(citizenship)	
	Residence: (city)			(state/country)		
	Post Office Address:					
	(Zip Code)					
6.						
7.						

DECLARAT

over to 3rd dec

RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

FAULT DETECTION

the specification of which (check applicable box(es)):

- ☐ is attached hereto
☐ was filed on

as U.S. Application Serial No.

(Atty Dkt. No.

☒ was filed as PCT International application No.

PCT/GB2003/001359

on 27 MARCH 2003

and (if applicable to U.S. or PCT application) was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filing date of this application:

Priority Foreign Application(s):

Application Number
02252351.8

Country
EUROPE

Day/Month/Year Filed
28 MARCH 2002

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below:

Application Number

Date/Month/Year Filed

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s):

Application Serial No.

Day/Month/Year Filed

Status: patented
pending, abandoned

PCT/GB2003/001359

27 MARCH 2003

PENDING

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint **NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed)**, and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Arthur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A. Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36663; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea, 34725; Donald L. Jackson, 41090; Michelle N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1. Inventor's Signature:

Inventor:

NICHOLAS
(first)

MI

LUNT
(last)

GB
(citizenship)

Residence: (city)

IPSWICH

(state/country) GREAT BRITAIN

Post Office Address:

17 DEMESNE GARDENS, MARTLESHAM HEATH, IPSWICH, SUFFOLK

(Zip Code)

IP5 3UA

Date:

FOR ADDITIONAL INVENTORS, check box ☒ and attach sheet with same information and signature and date for each.

RULE 63 (37 C.F.R. 1.63)
DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Nixon & Vanderhye P.C. (12/95)

Page 2

2.	Inventor's Signature: Inventor:	PAUL <small>(first)</small> MI	BIRDSALL <small>(last)</small>	Date: _____
	Residence: (city)	GREAT BRITAIN <small>(state/country)</small>		
	Post Office Address:	44 SUFFOLK ROAD, IPSWICH, SUFFOLK,		
	(Zip Code)	IP4 2EZ		
3.	Inventor's Signature: Inventor:	MICHAEL <small>(first)</small> WMI	BECKFORD <small>(last)</small>	Date: _____
	Residence: (city)	GREAT BRITAIN <small>(state/country)</small>		
	Post Office Address:	12 LAWNSWOOD CLOSE, LITTLEOVER, DERBY, DERBYSHIRE		
	(Zip Code)	DE23 6JE		
4. 00	Inventor's Signature: Inventor:	ANDREW <small>(first)</small> D <small>MI</small>	CHATELL <small>(last)</small>	Date: 31/3/03
	Residence: (city)	GREAT BRITAIN <small>(state/country)</small>		
	Post Office Address:	314 COLCHESTER ROAD, IPSWICH, SUFFOLK		
	(Zip Code)	IP4 4NQ		
5.	Inventor's Signature: Inventor:	(first)MI	(last)	Date: _____
	Residence: (city)	(state/country)		
	Post Office Address:			
	(Zip Code)			
6.				
7.				

DECLARAT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

LUNT et al**DT09 Rec'd PCT/PTO 10 SEP 2004**

Atty. Ref.: 36-1839

Serial No. **Unknown**

Group:

National Phase of: **PCT/GB03/01359**International Filing Date: **27 March 2003**Filed: **September 10, 2004**

Examiner:

For: **FAULT DETECTION**

* * * * *

September 10, 2004

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

IDENTIFICATION OF PRACTITIONERS TO BE RECOGNIZED

Of the Patent Practitioners identified in the concurrently filed Power of Attorney, please recognize the following listed Patent Practitioners as being of record in the above-identified application/patent.

Listing of Practitioners of Record (No more than 10)

Larry S. Nixon	Reg. No. <u>25,640</u>
Arthur R. Crawford	Reg. No. <u>25,327</u>
Robert W. Faris	Reg. No. <u>31,352</u>
Mark E. Nusbaum	Reg. No. <u>32,348</u>
Michael J. Keenan	Reg. No. <u>32,106</u>
Jeffry H. Nelson	Reg. No. <u>30,481</u>
Michael J. Shea	Reg. No. <u>34,725</u>
Updeep S. Gill	Reg. No. <u>37,334</u>
Raymond Y. Mah	Reg. No. <u>41,426</u>

Respectfully submitted,

NIXON & VANDERHYE P.C.

By:



Larry S. Nixon

Reg. No. 25,640

Customer No. 23117**LSN:Imy**

1100 North Glebe Road, 8th Floor
Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100